



Welcome United States Patent and Trademark Office

[Search Session History](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Thu, 22 Jun 2006, 2:04:50 PM EST

Edit an existing query or compose a new query in the Search Query Display.

Search Query Display

Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Recent Search Queries

- | | |
|----|----------------------------------------------------------------------------------------------------------------|
| #1 | ((mathematical model*<sentence>matrix and operating<paragraph>(condition? or parameter?))<in>metadata) |
| #2 | mathematical model*<sentence>matrix |
| #3 | ((mathematical model*<sentence>matrix)<AND>(mathematical model*<sentence>matrix and matrix cell?<in>metadata)) |
| #4 | mathematical model*<sentence>matrix |
| #5 | (mathematical model*<sentence>matrix and matrix<sentence>cell?<IN>metadata) |
| #6 | (mathematical model*<sentence>matrix and matrix<sentence>cell?<IN>metadata) |
| #7 | (mathematical model*<sentence>matrix and system<sentence>operating<sentence>condition?<IN>metadata) |
| #8 | (mathematical model*<sentence>matrix and system<sentence>operating<sentence>condition?<IN>metadata) |
| #9 | mathematical model<sentence>parameter? and sensor? and matrix<sentence>cell? |

[Help](#) [Contact Us](#) [Privacy](#)

© Copyright 2006 IE

Indexed by
 Inspect

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alt](#)

Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "((mathematical model*<sentence>matrix)<and>(mathematical model*<sentence>matrix an..."

Your search matched 0 of 394 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

e-mail

» Search Options

[View Session History](#)[New Search](#)

Modify Search

 ☐ Check to search only within this results set

» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

Display Format: ☒ Citation ☐ Citation & Abstract

No results were found.

Please edit your search criteria and try again. Refer to the Help pages if you need assistance revising your search

Indexed by
 Inspec®[Help](#) [Contact Us](#) [Privac](#)

© Copyright 2006 IE

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alt](#)

Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "(mathematical model"<sentence>matrix and matrix<sentence>cell?<in>metadata)"

Your search matched 1 of 1360403 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

e-mail

» Search Options

[View Session History](#)[New Search](#)

Modify Search

☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract **view selected items**[Select All](#) [Deselect All](#)

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

» Key

- ☐ 1. Dynamics of the cell and its extracellular matrix - a simple mathematical approach
Saha, A.K.; Mazumdar, J.N.;
[Nanobioscience, IEEE Transactions on](#)
Volume 2, Issue 2, June 2003 Page(s):89 - 93
Digital Object Identifier 10.1109/TNB.2003.813921
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(309 KB\)](#) [IEEE JNL](#)
[Rights and Permissions](#)

Indexed by
 Inspec®[Help](#) [Contact Us](#) [Privacy](#)

© Copyright 2006 IE

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#)

Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "(mathematical model"<sentence>matrix and system<sentence>operating<sentence>condit..."

Your search matched 1 of 1360403 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

e-mail

» Search Options

[View Session History](#)[New Search](#)

Modify Search

 ☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract [Select All](#) [Deselect All](#)

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

» Key

- ☐ 1. Method and software for coordinated tuning of power system regulators
Maslennikov, V.A.; Ustinov, S.M.;
[Power Systems, IEEE Transactions on](#)
Volume 12, Issue 4, Nov. 1997 Page(s):1419 - 1424
Digital Object Identifier 10.1109/59.627836
[AbstractPlus](#) | Full Text: [PDF](#)(596 KB) IEEE JNL
[Rights and Permissions](#)

Indexed by
 Inspec®[Help](#) [Contact Us](#) [Privacy](#)

© Copyright 2006 IE

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [About](#)

Welcome United States Patent and Trademark Office

[Search Results](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "mathematical model<sentence>parameter? and sensor? and matrix<sentence>cell?"

[e-mail](#)

Your search matched 0 of 1360403 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

» Search Options

[View Session History](#)[New Search](#)

Modify Search

mathematical model<sentence>parameter? and sensor? and matrix<sentence>cell?

☐ Check to search only within this results set

» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

Display Format: ☒ Citation ☐ Citation & Abstract

No results were found.

Please edit your search criteria and try again. Refer to the Help pages if you need assistance revising your search

Indexed by
 Inspec®[Help](#) [Contact Us](#) [Privacy](#)

© Copyright 2006 IEEE



[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

Search: ☒ The ACM Digital Library ☐ The Guide

mathematical model? and matrix<sentence>cell? and sensor?

SEARCH

[Feedback](#) [Report a problem](#) [Satisfaction](#)

Terms used

mathematical model? and **matrix sentence cell?** and **sensor?** and **operating sentence condition?** or **parame**

Sort results by

[Save results to a Binder](#)

[Try an Advanced Search](#)

Display results

[Search Tips](#)

[Try this search in The ACM Gu](#)

☐ Open results in a new window

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scal

1 [Parallel and distributed systems and networking: A particle swarm model for swarm-based](#)



[networked sensor systems](#)

B. Anthony Kadvovach, Gary B. Lamont

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(614.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index term](#)

Swarm behavior as demonstrated by flocks of birds, schools of fish, and swarms of insects provide a useful method for implementing a distributed network of mobile sensor platforms. Such mobile sensor systems are useful for various search or surveillance activities. Swarm behavior ensures separation between swarm members while enforcing a level of cohesion. These two properties, when considered in the context of sensors and wireless communications, provide for low redundancy coverage a ...

Keywords: distributed processing, networking, particle swarms, robotics, wireless

2 [A new networking model for biological applications of ad hoc sensor networks](#)

Zygmunt J. Haas, Tara Small

February 2006 **IEEE/ACM Transactions on Networking (TON)**, Volume 14 Issue 1

Publisher: IEEE Press

Full text available: pdf(703.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we introduce the Shared Wireless Infostation Model (SWIM), which extends the Infostation model by incorporating information replication, storage, and diffusion into a mobile ad hoc network architecture with intermittent connectivity. SWIM is able to reduce the delay of packet delivery at the expense of increased storage at the network nodes. Furthermore, SWIM improves the overall capacity-delay tradeoff by only moderately increasing the storage requirements. This tradeoff is examined ...

Keywords: SWIM, animal monitoring, biological data acquisition, capacity-delay tradeoff, data dissemination, delay-tolerant networks, epidemic modelling, epidemic routing, flooding, sensor networks, sparse networks, stochastic routing, store-carry-forward, wireless infostation model

3

[Oral presentation session 1: In network modeling, processing, & optimization: Distributed](#)



regression: an efficient framework for modeling sensor network data

Carlos Guestrin, Peter Bodi, Romain Thibau, Mark Paski, Samuel Madde

April 2004 **Proceedings of the third international symposium on Information processing in sensor networks IPSN '04**

Publisher: ACM Press

Full text available: pdf(1.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We present *distributed regression*, an efficient and general framework for *in-network* modeling of sensor data. In this framework, the nodes of the sensor network collaborate to optimally fit a global function to each of their local measurements. The algorithm is based upon *kernel linear regression*, where the model takes the form of a weighted sum of local basis functions; this provides an expressive yet tractable class of models for sensor network data. Rather than transmitting ...

Keywords: distributed algorithms, machine learning, regression, wireless sensor networks

4 Synchronization: Firefly-inspired sensor network synchronicity with realistic radio effects



Geoffrey Werner-Allen, Geetika Tewari, Ankit Patel, Matt Welsh, Radhika Nagpal

November 2005 **Proceedings of the 3rd international conference on Embedded networked systems SenSys '05**

Publisher: ACM Press

Full text available: pdf(564.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Synchronicity is a useful abstraction in many sensor network applications. Communication scheduling, coordinated duty cycling, and time synchronization can make use of a synchronicity primitive that achieves a tight alignment of individual nodes' firing phases. In this paper we present the *Reach Firefly Algorithm (RFA)*, a decentralized synchronicity algorithm implemented on TinyOS-based nodes. Our algorithm is based on a mathematical model that describes how fireflies and neurons synchronize.

Keywords: biologically inspired algorithms, pulse-coupled oscillators, synchronization, wireless networks

5 Three-dimensional object recognition



Paul J. Besl, Ramesh C. Jain

March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(7.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

A general-purpose computer vision system must be capable of recognizing three-dimensional (3D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses concepts associated with this problem, and reviews the relevant literature. Because range images (depth maps) are often used as sensor input instead of intensity images, techniques for obtaining range data, processing, and characterizing range data are also surveyed.

6 Security: Analyzing and modeling encryption overhead for sensor network nodes



Prasanth Ganesan, Ramnath Venugopalan, Pushkin Peddabachagari, Alexander Dean, Frank Muelle, Mihail Sichitiu

September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available: pdf(254.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent research in sensor networks has raised security issues for small embedded devices. Security concerns are motivated by the deployment of a large number of sensory devices in the field. Limitations in processing power, battery life, communication bandwidth and memory constrain the applicability of existing cryptography standards for small embedded devices. A mismatch between wide arithmetic

security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combi

Keywords: analysis, embedded systems, encryption overhead, model, sensor networks

7 Embedded applications: Encryption overhead in embedded systems and sensor network n modeling and analysis



Ramnath Venugopalan, Prasanth Ganesan, Pushkin Peddabachagari, Alexander Dean, Frank Muelle Mihail Sichitiu

October 2003 **Proceedings of the 2003 international conference on Compilers, architecture synthesis for embedded systems**

Publisher: ACM Press

Full text available: pdf(293.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Recent research in sensor networks has raised issues of security for small embedded devices. Se concerns are motivated by the deployment of a large number of sensory devices in the field. Lir in processing power, battery life, communication bandwidth and memory constrain the applicabi existing cryptography standards for small embedded devices. A mismatch between wide arithme security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combi

Keywords: embedded systems, encryption, security, sensor networks

8 Using Ada to maximize verbatim software reuse



M. Stark, E. Booth

January 1989 **Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment**

Publisher: ACM Press

Full text available: pdf(1.60 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Model-based object recognition in dense-range images—a review



Farshid Arman, J. K. Aggarwal

March 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(3.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

The goal in computer vision systems is to analyze data collected from the environment and deriv interpretation to complete a specified task. Vision system tasks may be divided into data acquisi low-level processing, representation, model construction, and matching subtasks. This paper pre comprehensive survey of model-based vision systems using dense-range images. A comprehens survey of the recent publications in each subtask pertaining to dense-range image object recogn

Keywords: 3D object recognition, 3D representations, CAD-based vision, dense-range images, understanding

10 Network Provisioning: Calibration as parameter estimation in sensor networks



Kamin Whitehouse, David Culler

September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor net and applications**

Publisher: ACM Press

Full text available: pdf(260.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We describe an ad-hoc localization system for sensor networks and explain why traditional calibr methods are inadequate for this system. Building upon previous work, we frame calibration as a

parameter estimation problem; we parameterize each device and choose the values of those parameters that optimize the overall system performance. This method reduces our average error 74.6% without calibration to 10.1%. We propose ways to expand this technique to a method of autocalibration for lo ...

Keywords: actuator, auto calibration, calibration, parameter estimation, relative calibration, sensor networks

11 Sensor deployment and target localization in distributed sensor networks



Yi Zou, Krishnendu Chakrabarty

February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(294.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The effectiveness of cluster-based distributed sensor networks depends to a large extent on the coverage provided by the sensor deployment. We propose a virtual force algorithm (VFA) as a deployment strategy to enhance the coverage after an initial random placement of sensors. For a number of sensors, the VFA algorithm attempts to maximize the sensor field coverage. A judicious combination of attractive and repulsive forces is used to determine the new sensor locations that improve ...

Keywords: Cluster-based sensor networks, cluster head, sensor field coverage, sensor placement, virtual force

12 Performance aware tasking for environmentally powered sensor networks



Aman Kansal, Dunny Potter, Mani B. Srivastava

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS 2004/PERFORMANCE 2004**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(384.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The use of environmental energy is now emerging as a feasible energy source for embedded and wireless computing systems such as sensor networks where manual recharging or replacement of batteries is not practical. However, energy supply from environmental sources is highly variable over time. Further, for a distributed system, the energy available at its various locations will be different. These variations strongly influence the way in which environmental energy is used. We present a harvesting ...

Keywords: energy harvesting, performance guarantees, process scheduling

13 A qualitative simulation approach for fuzzy dynamical models



Andrea Bonarini, Gianluca Bontempi

October 1994 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(1.63 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article deals with simulation of approximate models of dynamic systems. We propose an approach that is appropriate when the uncertainty intrinsic in some models cannot be reduced by traditional identification techniques, due to the impossibility of gathering experimental data about the system itself. The article presents a methodology for qualitative modeling and simulation of approximate known systems. The proposed solution is based on the Fuzzy Sets theory, extending the power of

Keywords: simulation of approximate dynamical models, simulation of fuzzy dynamical models

14 Algorithms for multihop networks II: Initializing newly deployed ad hoc and sensor networks

 Fabian Kuhn, Thomas Moscibroda, Roger Wattenhofer
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available:  pdf(367.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A newly deployed multi-hop radio network is unstructured and lacks a reliable and efficient communication scheme. In this paper, we take a step towards analyzing the problems existing during the initialization phase of ad hoc and sensor networks. Particularly, we model the network as a random hop quasi unit disk graph and allow nodes to wake up asynchronously at any time. Further, nodes do not feature a reliable collision detection mechanism, and they have only limited knowledge about the network ...

Keywords: ad-hoc networks, asynchronous wake-up, clustering, distributed algorithms, dominating algorithms, initialization, sensor networks

15 Synchronization: Estimating clock uncertainty for efficient duty-cycling in sensor networks

 Saurabh Ganeriwal, Deepak Ganesan, Hohyun Shim, Vlasios Tsiatsis, Mani B. Srivastava
November 2005 **Proceedings of the 3rd international conference on Embedded networked systems SenSys '05**

Publisher: ACM Press


Full text available:  pdf(476.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Radio duty cycling has received significant attention in sensor networking literature, particularly in the form of protocols for medium access control and topology management. While many protocols have claimed to achieve significant duty-cycling benefits in theory and simulation, these benefits have not translated to practice. The dominant factor that prevents the optimal usage of the radio in real deployment settings is time uncertainty between sensor nodes. This paper proposes an uncertainty

Keywords: clock drift, polynomial model estimation, rate adaptation, sampling period, sensor networks, time synchronization

16 Special section on sensor network technology and sensor data management: An environment for a sensor network to determine drinking water quality and security

 Anastassia Ailamaki, Christos Faloutsos, Paul S. Fischbeck, Mitchell J. Small, Jeanne VanBriesen
December 2003 **ACM SIGMOD Record**, Volume 32 Issue 4

Publisher: ACM Press

Full text available:  pdf(72.40 KB)


Additional Information: [full citation](#), [abstract](#), [references](#)

Finding patterns in large, real, spatio/temporal data continues to attract high interest (e.g., sales of products over space and time, patterns in mobile phone users; sensor networks collecting operational data from automobiles, or even from humans with wearable computers). In this paper, we describe an interdisciplinary research effort to couple knowledge discovery in large environmental databases with biological and chemical sensor networks, in order to revolutionize drinking water quality and ...

17 Explore multi-resolution views with PTZ and coordinated camera networks: Cooperative visual surveillance using model predictive control

 Vivek K. Singh, Pradeep K. Atrey
November 2005 **Proceedings of the third ACM international workshop on Video surveillance sensor networks VSSN '05**

Publisher: ACM Press

Full text available:  pdf(1.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Active cooperative sensing with multiple sensors is being actively researched in visual surveillance. However, active cooperative sensing often suffers from the delay in information exchange among sensors and also from sensor reaction delays. This is because simplistic control strategies like Proportional Integral Differential (PID), that do not employ the look-ahead strategy, often fail to counterbalance these delays at real time. Hence, there is a need for more sophisticated interaction ...

Keywords: coopetition, model predictive control, video surveillance

18 SCAAT: incremental tracking with incomplete information



Greg Welch, Gary Bishop

August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  pdf(104.69 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Kalman filter, autocalibration, calibration, delay, feature tracking, latency, sensor fusion, virtual environments tracking

19 Energy efficiency: Latency of wireless sensor networks with uncoordinated power saving mechanisms



Olivier Dousse, Petteri Mannersalo, Patrick Thiran

May 2004 **Proceedings of the 5th ACM international symposium on Mobile ad hoc networks and computing**

Publisher: ACM Press

Full text available:  pdf(351.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider a wireless sensor network, where nodes switch between an active (on) and a sleep mode, to save energy. The basic assumptions are that the on/off schedules are completely uncoordinated and that the sensors are distributed according to a Poisson process and their communication ranges are larger or equal to their sensing ranges. Moreover, the durations of active and sleep periods are such that the number of active nodes at any particular time is so low that the network always ...

Keywords: continuum percolation, first passage percolation, sensor networks


20 A survey of image registration techniques



Lisa Gottesfeld Brown

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(5.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, motion ...

Keywords: image registration, image warping, rectification, template matching

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2006 ACM, Inc.
[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)



SCIENCE @ DIRECT

Register or Login:

user name

Password:

Go

[Athens/Institution Log](#)[Home](#)[Search](#)[Journals](#)[Books](#)[Abstract Databases](#)[My Profile](#)[Alerts](#)[Help](#)

Quick Search:

within

[All Full-text Sources](#)

Go

[Search Tips](#)[previous page](#)

results 1 - 100

[next page](#)

114 Articles Found

pub-date > 1991 and pub-date < 2004 and mathematical model* w/15 (operating condition* or parameter*) and matrix w/15 cell*

[Edit Search](#) | [Save Search](#) | [Save as Search Alert](#)
[Search With](#)[Article List](#)[Partial Abstracts](#)[Full Abstracts](#)[display checked docs](#)[e-mail articles](#)[export citations](#)Sort By: [Date](#)[Go](#)

1. ☐ **Biosorption of copper (II) from chemical mechanical planarization wastewaters • ARTICLE**
Journal of Environmental Management, Volume 69, Issue 3, November 2003, Pages 289-297
 Leah C. Stanley and Kimberly L. Ogden
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(291 K\)](#)

2. ☐ **Electrocatalytic production of hydrogen on reticulated vitreous carbon • ARTICLE**
International Journal of Hydrogen Energy, Volume 28, Issue 11, November 2003, Pages 1199-1206
 M. S. El-Deab and Mahmoud M. Saleh
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(479 K\)](#)

3. ☐ **Complex dynamics of tumors: modeling an emerging brain tumor system with coupled reaction-diffusion equations • ARTICLE**
Physica A: Statistical Mechanics and its Applications, Volume 327, Issues 3-4, 15 September 2003, Pages 501-524
 Salman Habib, Carmen Molina-París and Thomas S. Deisboeck
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(650 K\)](#)

4. ☐ **Chemotherapeutic engineering: Application and further development of chemical engineering principles for chemotherapy of cancer and other diseases • REVIEW ARTICLE**
Chemical Engineering Science, Volume 58, Issue 18, September 2003, Pages 4087-4114
 Si-Shen Feng and Shu Chien
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(974 K\)](#)

5. ☐ **Mathematical model predicts a critical role for osteoclast autocrine regulation in the control of bone remodeling • ARTICLE**
Bone, Volume 33, Issue 2, August 2003, Pages 206-215
 Svetlana V. Komarova, Robert J. Smith, S. Jeffrey Dixon, Stephen M. Sims and Lindi M. Wahl

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(434 K\)](#)

6. ☐ **A review of polymer dissolution • REVIEW ARTICLE**
Progress in Polymer Science, Volume 28, Issue 8, August 2003, Pages 1223-1270
 Beth A. Miller-Chou and Jack L. Koenig
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(743 K\)](#)

7. ☐ **Monoseptic cultivation of phototrophic microorganisms—development and scale-up of a photobioreactor system with thermal sterilization • ARTICLE**
Biomolecular Engineering, Volume 20, Issues 4-6, July 2003, Pages 261-271
 Christian Walter, Torsten Steinau, Norbert Gerbsch and Rainer Buchholz
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(754 K\)](#)

8. ☐ **A novel TAT–Mitochondrial signal sequence fusion protein is processed, stays in mitochondria, and crosses the placenta • ARTICLE**
Molecular Therapy, Volume 7, Issue 6, June 2003, Pages 720-730
 Victoria Del Gaizo and R. Mark Payne
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(562 K\)](#)

9. ☐ **Symmetry-preserving discretization of turbulent flow • ARTICLE**
Journal of Computational Physics, Volume 187, Issue 1, 1 May 2003, Pages 343-368
 R. W. C. P. Verstappen and A. E. P. Veldman
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(409 K\)](#)

10. ☐ **Plastic constitutive behavior of short-fiber/particle reinforced composites • ARTICLE**
International Journal of Plasticity, Volume 19, Issue 5, May 2003, Pages 565-581
 Baohua Ji and Tzuchiang Wang
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(224 K\)](#)

11. ☐ **Control analysis of mitochondrial metabolism in intact hepatocytes: effect of interleukin-1 β and interleukin-6 • ARTICLE**
Metabolic Engineering, Volume 5, Issue 2, April 2003, Pages 108-123
 François Berthiaume, Annette D. MacDonald, Yoon H. Kang and Martin L. Yarmush
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(290 K\)](#)

12. ☐ **Global Chromosome Positions Are Transmitted through Mitosis in Mammalian Cells • ARTICLE**
Cell, Volume 112, Issue 6, 21 March 2003, Pages 751-764
 Daniel Gerlich, Joël Beaudouin, Bernd Kalbfuss, Nathalie Daigle, Roland Eils and Jan Ellenberg
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(807 K\)](#)

13. ☐ **Potential nutritional assessment of dwarf elephant grass (*Pennisetum purpureum* Schum. cv. Mott) by chemical composition, digestion and net portal flux of oxygen in cattle • ARTICLE**
Animal Feed Science and Technology, Volume 104, Issues 1-4, 20 February 2003, Pages 29-40
 G. V. Kozloski, J. Perottoni, M. L. S. Ciocca, J. B. T. Rocha, A. G. Raiser and L. M. B. Sanchez

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(93 K\)](#)

14. ☐ **The interplay between integrins $\alpha_m\beta_2$ and $\alpha_5\beta_1$ during cell migration to fibronectin** • ARTICLE

Experimental Cell Research, Volume 283, Issue 1, 1 February 2003, Pages 116-126

Valeryi K. Lishko, Valentin P. Yakubenko and Tatiana P. Ugarova

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(406 K\)](#)

15. ☐ **On the mechanochemical theory of biological pattern formation with application to vasculogenesis** • ARTICLE

Comptes Rendus Biologies, Volume 326, Issue 2, February 2003, Pages 239-252

James D. Murray

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(377 K\)](#)

16. ☐ **Cool flame partial oxidation and its role in combustion and reforming of fuels for fuel cell systems** • REVIEW ARTICLE

Progress in Energy and Combustion Science, Volume 29, Issue 2, 2003, Pages 155-191

A. Naidja, C. R. Krishna, T. Butcher and D. Mahajan

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(654 K\)](#)

17. ☐ **Computational modeling of cardiac fatty acid uptake and utilization** • REVIEW ARTICLE

Advances in Molecular and Cell Biology, Volume 33, 2003, Pages 173-221

Mark W. J. M. Musters, Jim B. Bassingthwaite, Virjanand Panday, Natal A. W. van Riel and Ger J. van der Vusse

[Abstract](#)

18. ☐ **A QSAR model for desorption of halogenated aliphatics from biosolids** • ARTICLE

Advances in Environmental Research, Volume 7, Issue 2, January 2003, Pages 511-520

Hsin-Neng Hsieh and Sudhi Mukherjee

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(135 K\)](#)

19. ☐ **Study of sponge cake batter baking process. II. Modeling and parameter estimation** • ARTICLE

Journal of Food Engineering, Volume 55, Issue 4, December 2002, Pages 349-357

Mathieu Lostie, Roman Peczalski, Julien Andrieu and Michel Laurent

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(256 K\)](#)

20. ☐ **Thermodynamical analysis of the dynamics of tumor interaction with the host immune system** • ARTICLE

Physica A: Statistical Mechanics and its Applications, Volume 313, Issues 3-4, 15 October 2002, Pages 569-577

U. Lucia and G. Maino

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(114 K\)](#)

21. ☐ **Cryosurgical changes in the porcine kidney: histologic analysis with thermal history correlation** • ARTICLE

Cryobiology, Volume 45, Issue 2, October 2002, Pages 167-182

Christopher C. Rupp, Nathan E. Hoffmann, Franz R. Schmidlin, David J. Swanlund, John

C. Bischof and James E. Coad
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(610 K\)](#)

-
22. ☐ **Numerical simulation of cyclic plasticity and damage of an aluminium metal matrix composite with particulate SiC inclusions • ARTICLE**
International Journal of Fatigue, Volume 24, Issue 10, October 2002, Pages 1079-1088
 W. J. Fleming and J. M. Temis
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(445 K\)](#)

-
23. ☐ **Using formal MS/OR modeling to support disaster recovery planning • ARTICLE**
European Journal of Operational Research, Volume 141, Issue 3, 16 September 2002, Pages 679-688
 Kweku-Muata (Noel) Bryson, Harvey Millar, Anito Joseph and Ayodéle Mobolurin
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(118 K\)](#)

-
24. ☐ **Cells behaving badly: a theoretical model for the Fas/FasL system in tumour immunology • ARTICLE**
Mathematical Biosciences, Volume 179, Issue 2, September-October 2002, Pages 113-129
 Steven D. Webb, Jonathan A. Sherratt and Reginald G. Fish
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(184 K\)](#)

-
25. ☐ **Mathematical modelling and optimization of hydrogen continuous production in a fixed bed bioreactor • ARTICLE**
Chemical Engineering Science, Volume 57, Issue 18, September 2002, Pages 3819-3830
 E. Palazzi, P. Perego and B. Fabiano
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(328 K\)](#)

-
26. ☐ **Consideration of numerical simulation parameters and heat transfer models for a molten carbonate fuel cell stack • ARTICLE**
Chemical Engineering Journal, Volume 87, Issue 3, 28 August 2002, Pages 367-379
 Joon-Ho Koh, Hai-Kung Seo, Young-Sung Yoo and Hee Chun Lim
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(261 K\)](#)

-
27. ☐ **Computational battery dynamics (CBD)—electrochemical/thermal coupled modeling and multi-scale modeling • ARTICLE**
Journal of Power Sources, Volume 110, Issue 2, 22 August 2002, Pages 364-376
 C. Y. Wang and Venkat Srinivasan
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(452 K\)](#)

-
28. ☐ **Copper adsorption on calcium alginate beads: equilibrium pH-related models • ARTICLE**
Hydrometallurgy, Volume 65, Issue 1, July 2002, Pages 43-57
 F. Veglio, A. Esposito and A. P. Reverberi
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(388 K\)](#)

-
29. ☐ **Multiple control and dynamic response of the *Xenopus* melanotrope cell • REVIEW ARTICLE**
Comparative Biochemistry and Physiology Part B: Biochemistry and Molecular Biology, Volume 132, Issue 1, May 2002, Pages 257-268

S. M. Kolk, B. M. R. Kramer, L. N. Cornelisse, W. J. J. M. Scheenen, B. G. Jenks and E. W. Roubos
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(506 K\)](#)

-
30. ☐ **Analysis of tumor as an inverse problem provides a novel theoretical framework for understanding tumor biology and therapy • ARTICLE**
Applied Mathematics Letters, Volume 15, Issue 3, April 2002, Pages 339-345
 R. A. Gatenby, P. K. Maini, E. T. Gawlinski
[Abstract](#) | [Abstract + References](#) | [PDF \(519 K\)](#)

-
31. ☐ **A10/E3—Modelling in biomechanics: Organised by J.L. van Leeuwen and P. Aerts for the Biomechanics Group • MISCELLANEOUS**
Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology, Volume 132, Supplement 1, April 2002, Pages S81-S88
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(92 K\)](#)

-
32. ☐ **A discrete-time nonlinear Wiener model for the relaxation of soft biological tissues • ARTICLE**
Medical Engineering & Physics, Volume 24, Issue 1, January 2002, Pages 9-19
 Virginio Quaglini, Fabio Previdi, Roberto Contro and Sergio Bittanti
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(170 K\)](#)

-
33. ☐ **Developing a core platform for the tissue engineering of vital organs • ARTICLE**
Transplantation Reviews, Volume 15, Issue 4, October 2001, Pages 184-199
 Erin R. Ochoa and Joseph P. Vacanti
[Abstract](#) | [Abstract + References](#) | [PDF \(1329 K\)](#)

-
34. ☐ **Transient linear stability of a Simons-process gas-liquid electrochemical flow reactor using numerical simulations • ARTICLE**
Chemical Engineering Science, Volume 56, Issue 20, October 2001, Pages 5815-5834
 Javit A. Drake, Clayton J. Radke and John Newman
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(264 K\)](#)

-
35. ☐ **Electrothermal vaporization and laser ablation sample introduction for flame and plasma spectrometric analysis of solid and solution samples • REVIEW ARTICLE**
Spectrochimica Acta Part B: Atomic Spectroscopy, Volume 56, Issue 9, 30 September 2001, Pages 1523-1563
 Tibor Kántor
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(302 K\)](#)

-
36. ☐ **Integration of Raman microscopy, differential interference contrast microscopy, and attenuated total reflection Fourier transform infrared spectroscopy to investigate chlorhexidine spatial and temporal distribution in *Candida albicans* biofilms • ARTICLE**
Journal of Microbiological Methods, Volume 46, Issue 3, September 2001, Pages 193-208
 Peter A. Suci, Gill G. Geesey and Bonnie J. Tyler
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(667 K\)](#)

-
37. ☐ **Efficient solution of ordinary differential equations modeling electrical activity in**

cardiac cells • ARTICLE

Mathematical Biosciences, Volume 172, Issue 2, August 2001, Pages 55-72

Joakim Sundnes, Glenn Terje Lines and Aslak Tveito

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(190 K\)](#)

38. ☐ **Biogeochemical controls on metal behaviour in freshwater environments • REVIEW ARTICLE**

Earth-Science Reviews, Volume 54, Issue 4, August 2001, Pages 261-320

Lesley A. Warren and Elizabeth A. Haack

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(680 K\)](#)

39. ☐ **Agarose gel stiffness determines rate of DRG neurite extension in 3D cultures • ARTICLE**

Biomaterials, Volume 22, Issue 10, May 2001, Pages 1077-1084

A. P. Balgude, X. Yu, A. Szymanski and R. V. Bellamkonda

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(281 K\)](#)

40. ☐ **A mathematical model for the study of interstitial fluid movement vis-a-vis the non-newtonian behaviour of blood in a constricted artery • ARTICLE**

Computers & Mathematics with Applications, Volume 41, Issues 5-6, March 2001, Pages 783-811

J. C. Misra and S. K. Ghosh

[Abstract](#) | [Abstract + References](#) | [PDF \(1400 K\)](#)

41. ☐ **Autofocus for inverse synthetic aperture radar (ISAR) imaging • ARTICLE**

Signal Processing, Volume 81, Issue 2, February 2001, Pages 275-291

Zhishun She, D. A. Gray and R. E. Bogner

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(520 K\)](#)

42. ☐ **Application of simplified rapid equilibrium models in simulating experimental breakthrough curves from fixed bed biosorption reactors • ARTICLE**

Hydrometallurgy, Volume 59, Issues 2-3, February 2001, Pages 395-406

A. Hatzikioseyan, M. Tsezos and F. Mavituna

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(250 K\)](#)

43. ☐ **Lateral freezing of an anisotropic porous medium saturated with an aqueous salt solution • ARTICLE**

International Journal of Heat and Mass Transfer, Volume 44, Issue 4, February 2001, Pages 733-751

M. Song and R. Viskanta

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(1085 K\)](#)

44. ☐ **Ratcheting in post-translational protein translocation: a mathematical model • ARTICLE**

Journal of Molecular Biology, Volume 305, Issue 3, 19 January 2001, Pages 643-656

Wolfram Liebermeister, Tom A. Rapoport and Reinhart Heinrich

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(1039 K\)](#)

45. ☐ **¹H NMR-visible mobile lipid domains correlate with cytoplasmic lipid bodies in**

apoptotic T-lymphoblastoid cells • ARTICLE

Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids, Volume 1530, Issue 1, 15 January 2001, Pages 47-66

Massimo Di Vito, Luisa Lenti, Arno Knijn, Egidio Iorio, Federica D'Agostino, Agnese Molinari, Annarica Calcabrini, Annarita Stringaro, Stefania Meschini, Giuseppe Arancia *et al.*

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(2843 K\)](#)

46. ☐ **Enzyme-catalyzed therapeutic agent (ECTA) design: activation of the antitumor ECTA compound NB1011 by thymidylate synthase • ARTICLE**

Biochemical Pharmacology, Volume 61, Issue 2, 15 January 2001, Pages 179-189

David B. Lackey, Michael P. Groziak, Maria Sergeeva, Malgorzata Beryt, Christopher Boyer, Robert M. Stroud, Peter Sayre, John W. Park, Patrick Johnston, Dennis Slamon *et al.*

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(409 K\)](#)

47. ☐ **Computational and experimental approaches to studying metal interactions with microbial biofilms • ARTICLE**

Methods in Enzymology, Volume 337, 2001, Pages 225-242

D. Scott Smith and F. Grant Ferris

[Abstract](#) | [Abstract + References](#) | [PDF \(1012 K\)](#)

48. ☐ **A gradient-driven mathematical model of antiangiogenesis • ARTICLE**

Mathematical and Computer Modelling, Volume 32, Issue 10, November 2000, Pages 1141-1152

A. R. A. Anderson and M. A. J. ChaplainC. García-Reimbert and C. A. Vargas

[Abstract](#) | [Abstract + References](#) | [PDF \(1051 K\)](#)

49. ☐ **Can we produce a human corneal equivalent by tissue engineering? • REVIEW ARTICLE**

Progress in Retinal and Eye Research, Volume 19, Issue 5, 1 September 2000, Pages 497-527

Lucie Germain, Patrick Carrier, François A. Auger, Christian Salesse and Sylvain L. Guérin

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(2196 K\)](#)

50. ☐ **Endothelial cell migration on surfaces modified with immobilized adhesive peptides • ARTICLE**

Biomaterials, Volume 21, Issue 17, September 2000, Pages 1725-1733

Stylianos Kouvroukoglou, Kay C. Dee, Rena Bizios, Larry V. McIntire and Kyriacos Zygourakis

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(404 K\)](#)

51. ☐ **A numerical method for analysis of tertiary current distribution in unsteady natural convection multi-ion electrodeposition • ARTICLE**

Electrochimica Acta, Volume 45, Issue 24, 1 August 2000, Pages 3959-3972

Meng-Hsuan Chung

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(420 K\)](#)

52. ☐ **Adsorption heat pump modeling: the thermal wave process with local equilibrium • ARTICLE**
Applied Thermal Engineering, Volume 20, Issue 8, 1 June 2000, Pages 759-780
 Brian K. Sward, M. Douglas LeVan and Francis Meunier
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(435 K\)](#)

53. ☐ **Keratinocyte growth factor signalling: a mathematical model of dermal–epidermal interaction in epidermal wound healing • ARTICLE**
Mathematical Biosciences, Volume 165, Issue 1, May 2000, Pages 41-62
 Helen J. Wearing and Jonathan A. Sherratt
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(413 K\)](#)

54. ☐ **Development of fibrin derivatives for controlled release of heparin-binding growth factors • ARTICLE**
Journal of Controlled Release, Volume 65, Issue 3, 3 April 2000, Pages 389-402
 Shelly E. Sakiyama-Elbert and Jeffrey A. Hubbell
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(358 K\)](#)

55. ☐ **Mathematical model for kinetics of alkali–silica reaction in concrete • ARTICLE**
Cement and Concrete Research, Volume 30, Issue 3, March 2000, Pages 419-428
 Zdeněk P. Bažant and Alexander Steffens
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(284 K\)](#)

56. ☐ **Pattern formation in integrative biology – a marriage of theory and experiment: Formation de motifs dans le contexte de la biologie intégrative : un mariage entre théorie et expérience. • ARTICLE**
Comptes Rendus de l'Académie des Sciences - Series III - Sciences de la Vie, Volume 323, Issue 1, January 2000, Pages 5-14
 James D. Murray
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(279 K\)](#)

57. ☐ **Bioreactors for plant engineering: an outlook for further research • ARTICLE**
Biochemical Engineering Journal, Volume 4, Issue 2, January 2000, Pages 89-99
 Lidija Sajc, Dragan Grubisic and Gordana Vunjak-Novakovic
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(161 K\)](#)

58. ☐ **Minimization of excess sludge production by increase of oxygen concentration in activated sludge flocs; experimental and theoretical approach • ARTICLE**
Water Research, Volume 34, Issue 1, 1 January 2000, Pages 139-146
 B. Abbassi, S. Dullstein and N. Rübiger
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(188 K\)](#)

59. ☐ **Biosorption of metals in brown seaweed biomass • ARTICLE**
Water Research, Volume 34, Issue 1, 1 January 2000, Pages 196-204
 M. M. Figueira, B. Volesky, V. S. T. Ciminelli and Felicity A. Roddick
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(165 K\)](#)

60. ☐ **Solid-state NMR characterization of hydration effects on polymer mobility in onion cell-wall material • ARTICLE**

Carbohydrate Research, Volume 322, Issues 1-2, 23 November 1999, Pages 102-112

Sabine Hediger, Lyndon Emsley and Monica Fischer

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(170 K\)](#)

-
61. ☐ **Pharmacokinetic/pharmacodynamic modeling of antitumor agents encapsulated into liposomes • ARTICLE**
Advanced Drug Delivery Reviews, Volume 40, Issues 1-2, 10 November 1999, Pages 39-61
 H. Harashima, M. Tsuchihashi, S. Iida, H. Doi and H. Kiwada
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(799 K\)](#)

-
62. ☐ **The importance of the cathode specific interfacial area in modeling a cylindrical alkaline cell • ARTICLE**
Journal of Power Sources, Volume 84, Issue 1, November 1999, Pages 114-125
 J. J. Kriegsmann and H. Y. Cheh
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(458 K\)](#)

-
63. ☐ **Computational structures technology: leap frogging into the twenty-first century • ARTICLE**
Computers & Structures, Volume 73, Issues 1-5, 12 October 1999, Pages 1-31
 Ahmed K. Noor
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(2343 K\)](#)

-
64. ☐ **Extracellular matrix concentration exerts selection pressure on invasive cells • ARTICLE**
European Journal of Cancer, Volume 35, Issue 8, August 1999, Pages 1274-1280
 A. J. Perumpanani and H. M. Byrne
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(143 K\)](#)

-
65. ☐ **Simplified models for turbulent diffusion: Theory, numerical modelling, and physical phenomena • REVIEW ARTICLE**
Physics Reports, Volume 314, Issues 4-5, June 1999, Pages 237-574
 Andrew J. Majda and Peter R. Kramer
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(3164 K\)](#)

-
66. ☐ **Biosorptive removal and recovery of cobalt from aqueous systems • ARTICLE**
Process Biochemistry, Volume 34, Issue 3, April 1999, Pages 239-247
 I. P. Suhasini, G. Sriram, S. R. Asolekar and G. K. Sureshkumar
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(166 K\)](#)

-
67. ☐ **Modeling radioprotective mechanisms in the dose effect relation at low doses and low dose rates of ionizing radiation • ARTICLE**
Mathematical Biosciences, Volume 155, Issue 1, January 1999, Pages 13-44
 Carl M. Fleck, Helmut Schöllnberger, Markus M. Kottbauer, Thomas Dockal and Ulrike Prüfert
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(293 K\)](#)

-
68. ☐ **Prediction of substrate consumption rate, average biofilm density and active thickness for a thin spherical biofilm at pseudo-steady state • ARTICLE**

Biochemical Engineering Journal, Volume 2, Issue 3, 1 December 1998, Pages 207-216
 Abdurrahman Tanyolaç and Haluk Beyenal
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(298 K\)](#)

-
69. ☐ **Whole-cell biocatalysis in organic media • REVIEW ARTICLE**
Enzyme and Microbial Technology, Volume 23, Issues 7-8, 15 November 1998, Pages 483-500
 R. León, P. Fernandes, H. M. Pinheiro and J. M. S. Cabral
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(387 K\)](#)
-
70. ☐ **Chromatographic indexes on immobilized artificial membranes for the prediction of transdermal transport of drugs • ARTICLE**
Il Farmaco, Volume 53, Issues 10-11, November 1998, Pages 655-661
 Francesco Barbato, Brunella Cappello, Agnese Miro, Maria Immacolata La Rotonda and Fabiana Quaglia
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(135 K\)](#)
-
71. ☐ **Scratching the (cell) surface: cytokine engineering for improved ligand/receptor trafficking dynamics • REVIEW ARTICLE**
Chemistry & Biology, Volume 5, Issue 10, October 1998, Pages R257-R263
 Douglas A. Lauffenburger, Eric M. Fallon and Jason M. Haugh
[Abstract](#) | [Abstract + References](#) | [PDF \(4656 K\)](#)
-
72. ☐ **Abstracts of the European Association for Cranio-Maxillofacial Surgery Helsinki Congress 1-5 September 1998 • ABSTRACT**
Journal of Cranio-Maxillofacial Surgery, Volume 26, Supplement 1, August 1998, Pages 3-21
[PDF \(27664 K\)](#)
-
73. ☐ **Fractal Properties of Cancellous Bone of the Iliac Crest in Vertebral Crush Fracture • ARTICLE**
Bone, Volume 23, Issue 1, July 1998, Pages 53-57
 N. L. Fazzalari and I. H. Parkinson
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(124 K\)](#)
-
74. ☐ **Mass balance and water management for hydrogen-air fuel cells of the alkaline matrix type • ARTICLE**
International Journal of Hydrogen Energy, Volume 23, Issue 6, June 1998, Pages 499-506
 S. Rowshanzamir, M. Kazemeini and M. Kabiri Isfahani
[Abstract](#) | [Abstract + References](#) | [PDF \(662 K\)](#)
-
75. ☐ **Optimization of olfactory model in software to give 1/f power spectra reveals numerical instabilities in solutions governed by aperiodic (chaotic) attractors • ARTICLE**
Neural Networks, Volume 11, Issue 3, April 1998, Pages 449-466
 Hung-Jen Chang, Walter J. Freeman and Brian C. Burke
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(552 K\)](#)
-

76. ☐ **Spatial pattern formation in biology: I. Dermal wound healing. II. Bacterial patterns • ARTICLE**
Journal of the Franklin Institute, Volume 335, Issue 2, March 1998, Pages 303-332
J. D. MurrayJ. CookR. TysonS. R. Lubkin
[Abstract](#) | [Abstract + References](#) | [PDF \(2390 K\)](#)

77. ☐ **A comparative study of copper(II) biosorption on Ca-alginate, agarose and immobilized *C. vulgaris* in a packed-bed column • ARTICLE**
Process Biochemistry, Volume 33, Issue 4, March 1998, Pages 393-400
Z. Aksu, G. Eđretli and T. Kutsal
[Abstract](#) | [Abstract + References](#) | [PDF \(772 K\)](#)

78. ☐ **Mathematical modelling of membrane extraction of gold(III) from hydrochloric acid solutions • ARTICLE**
Journal of Membrane Science, Volume 137, Issues 1-2, 24 December 1997, Pages 261-269

Spas D. Kolev, George Argiropoulos, Robert W. Catrall, Ian C. Hamilton and Rohani Paimin
[Abstract](#) | [Abstract + References](#) | [PDF \(575 K\)](#)

79. ☐ **Thermal softening of a particlemodified tungsten-based composite under adiabatic compression • ARTICLE**
International Journal of Solids and Structures, Volume 34, Issue 13, May 1997, Pages 1563-1581
P. R. Leduc and G. Bao
[Abstract](#) | [Abstract + References](#) | [PDF \(1504 K\)](#)

80. ☐ **Mathematical modelling and simulation of mass transfer in osmotic dehydration processes. Part III: Parametric study • ARTICLE**
Journal of Food Engineering, Volume 32, Issue 1, April 1997, Pages 33-46
Zhiming Yao and Marc Le Maguer
[Abstract](#) | [Abstract + References](#) | [PDF \(915 K\)](#)

81. ☐ **Percutaneous absorption: a multiple pathway model • ARTICLE**
Journal of Controlled Release, Volume 45, Issue 2, 17 March 1997, Pages 141-151
Antony J. Lee, John R. King and David A. Barrett
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(854 K\)](#)

82. ☐ **Multiprocessing for neutron diffusion and deterministic transport methods • ARTICLE**
Progress in Nuclear Energy, Volume 31, Issue 3, 1997, Pages 317-368
Yousry Y. Azmy
[Abstract](#) | [Abstract + References](#) | [PDF \(4151 K\)](#)

83. ☐ **Modelling the role of cell-cell adhesion in the growth and development of carcinomas • ARTICLE**
Mathematical and Computer Modelling, Volume 24, Issue 12, December 1996, Pages 1-17

H. M. Byrne and M. A. J. Chaplain

[Abstract](#) | [Abstract + References](#) | [PDF \(1488 K\)](#)

-
84. ☐ **Development of an artificial biofilm to study the effects of a single microcolony on mass transport • ARTICLE**
Journal of Microbiological Methods, Volume 26, Issues 1-2, July 1996, Pages 161-169
 Michael Abrahamson, Zbigniew Lewandowski, Gill Geesey, Gudmund Skjåk-Bræk, Wenche Strand and Bjørn E. Christensen
[Abstract](#) | [Abstract + References](#) | [PDF \(769 K\)](#)
-
85. ☐ **Determination of effective diffusion coefficient of substrate in gel particles with immobilized biocatalyst • ARTICLE**
Enzyme and Microbial Technology, Volume 18, Issue 8, June 1996, Pages 581-584
 Gabriela Handriková, Vladimír Štefuca, Milan Polakovič and Vladimír Bálek
[Abstract](#) | [Abstract + References](#) | [PDF \(462 K\)](#)
-
86. ☐ **Modelling and experimental studies of coking in a structured catalyst • ARTICLE**
Chemical Engineering Science, Volume 51, Issue 11, June 1996, Pages 2939-2944
 O. H. J. Muhammad and E. K. T. Kam
[Abstract](#) | [Abstract + References](#) | [PDF \(376 K\)](#)
-
87. ☐ **Avascular growth, angiogenesis and vascular growth in solid tumours: The mathematical modelling of the stages of tumour development • ARTICLE**
Mathematical and Computer Modelling, Volume 23, Issue 6, March 1996, Pages 47-87
 M. A. J. Chaplain
[Abstract](#) | [Abstract + References](#) | [PDF \(3850 K\)](#)
-
88. ☐ **Contaminant dispersal on the Palos Verdes continental margin: III. Processes controlling transport, accumulation and re-emergence of DDT-contaminated sediment particles • ARTICLE**
Science of The Total Environment, Volume 179, 26 January 1996, Pages 109-133
 Alan W. Niedoroda, Donald J. P. Swift, Christopher W. Reed and Janet K. Stull
[Abstract](#) | [Abstract + References](#) | [PDF \(4249 K\)](#)
-
89. ☐ **Long-term storage of tissues by cryopreservation: critical issues • ARTICLE**
Biomaterials, Volume 17, Issue 3, 1996, Pages 243-256
 Jens O. M. Karlsson and Mehmet Toner
[Abstract](#) | [Abstract + References](#) | [PDF \(1947 K\)](#)
-
90. ☐ **Comparison of estimation techniques for a time-dependent parameter in a metabolic reaction model • SHORT COMMUNICATION**
Journal of Fermentation and Bioengineering, Volume 81, Issue 4, 1996, Pages 363-365
 Hiroshi Shimizu, Keigo Miura, Noboru Takiguchi and Suteaki Shioya
[Abstract](#) | [Abstract + References](#) | [PDF \(425 K\)](#)
-
91. ☐ **Application of competition theory to tumour growth: Implications for tumour biology and treatment • ARTICLE**
European Journal of Cancer, Volume 32, Issue 4, April 1996, Pages 722-726
 R. A. Gatenby
[Abstract](#) | [Abstract + References](#) | [PDF \(652 K\)](#)
-

92. ☐ **Chemical engineering of cellular processes • ARTICLE**
Chemical Engineering Science, Volume 50, Issue 24, December 1995, Pages 4091-4108
James E. Bailey
[Abstract](#) | [Abstract + References](#) | [PDF \(1844 K\)](#)

93. ☐ **Fibres, particles and the lung: new perspectives : Abstracts of the 14th summer meeting of the British Association for Lung Research, held at Heriot-Watt University, Edinburgh, U.K. 11–12 September 1995 • ABSTRACT**
Respiratory Medicine, Volume 89, Issue 10, November 1995, Pages 719-750
[PDF \(2806 K\)](#)

94. ☐ **Review of the main methods of cell wall estimation: interest and limits for ruminants • REVIEW ARTICLE**
Animal Feed Science and Technology, Volume 55, Issues 3-4, October 1995, Pages 295-334
Sylvie Giger-Reverdin
[Abstract](#) | [Abstract + References](#) | [PDF \(3164 K\)](#)

95. ☐ **The use of mathematical modeling in the design of lithium/polymer battery systems • ARTICLE**
Electrochimica Acta, Volume 40, Issues 13-14, October 1995, Pages 2191-2196
Marc Doyle and John Newman
[Abstract](#) | [Abstract + References](#) | [PDF \(587 K\)](#)

96. ☐ **Mathematical models for tumour angiogenesis: numerical simulations and nonlinear wave solutions • ARTICLE**
Bulletin of Mathematical Biology, Volume 57, Issue 3, 1995, Pages 461-486
H.M. Byrne and M.A.J. Chaplain
[Abstract](#)

97. ☐ **Estimation of the protein-binding capacity of microplate wells using sequential ELISAs • ARTICLE**
Journal of Immunological Methods, Volume 178, Issue 1, 1995, Pages 59-70
P. Wilkins Stevens and D. M. Kelso
[Abstract](#) | [Abstract + References](#) | [PDF \(1170 K\)](#)

98. ☐ **IFAC international conference on computer applications in biotechnology • MISCELLANEOUS**
Control Engineering Practice, Volume 3, Issue 11, November 1995, Pages 1641-1644
[PDF \(401 K\)](#)

99. ☐ **Natural convection flow and heat transfer within a rectangular enclosure containing a vertical porous layer • ARTICLE**
International Journal of Heat and Mass Transfer, Volume 37, Issue 16, November 1994, Pages 2425-2438
M. Song and R. Viskanta
[Abstract](#)

100. ☐ **Improved procedure for wastewater biofilm removal and analysis • ARTICLE**

Colloids and Surfaces B: Biointerfaces, Volume 2, Issue 6, 29 July 1994, Pages 577-584
V. Pierzo, D. Bellahcen, D. Fontvieille, V. Lazarova, A. Huyard and J. Manem
[Abstract](#)

114 Articles Found

pub-date > 1991 and pub-date < 2004 and mathematical model* w/15 (operating condition* or parameter*) and matrix w/15 cell*

[Edit Search](#) | [Save Search](#) | [Save as Search Alert](#)

[◀ previous page](#)

results 1 - 100

[next page ▶](#)

[Home](#)

[Search](#)

[Journals](#)

[Books](#)

[Abstract Databases](#)

[MyProfile](#)

[Alerts](#)

[? Help](#)

[Contact Us](#) | [Terms & Conditions](#) | [Privacy Policy](#)

Copyright © 2006 Elsevier B.V. All rights reserved. ScienceDirect® is a registered trademark of Elsevier B.V.

WEST Search History

[Hide Items](#)[Restore](#)[Clear](#)[Cancel](#)

DATE: Thursday, June 22, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L5	L4 and (matrix with cell?)	2
<input type="checkbox"/>	L4	L3 and mathematical model and (operating same (condition? or parameter?))	113
<input type="checkbox"/>	L3	((mathematical with model\$) same matrix)	703
<input type="checkbox"/>	L2	tuken.in. and (mathematical with model\$) and matrix	1
<input type="checkbox"/>	L1	("4269061" "5020362" "5369984" "5781875" "6073073" "6192311" "6327850" "6353791" "6363316" "6363317" "6363318" "6370473")!.PN.	12

END OF SEARCH HISTORY

Hit List

First Hit

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050091294 A1

L2: Entry 1 of 1

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050091294

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050091294 A1

TITLE: System for estimating model parameters

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tuken, Taner	Cedar Falls	IA	US
Carey, David M.	Lino Lakes	MN	US

US-CL-CURRENT: 708/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
TUKEN	42
TUKENS	0
MATHEMATICAL	112148
MATHEMATICALS	5
MATRIX	466327
MATRICES	81902
MATRIXES	8929
MODEL\$	0
MODEL	180547
MODELA	6
MODELAA	1
(TUKEN.IN. AND (MATHEMATICAL WITH MODEL\$) AND	1

Hit List

First Hit

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20050091294 A1

L5: Entry 1 of 2

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050091294

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050091294 A1

TITLE: System for estimating model parameters

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tuken, Taner	Cedar Falls	IA	US
Carey, David M.	Lino Lakes	MN	US

US-CL-CURRENT: 708/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 2. Document ID: US 5930762 A

L5: Entry 2 of 2

File: USPT

Jul 27, 1999

US-PAT-NO: 5930762

DOCUMENT-IDENTIFIER: US 5930762 A

TITLE: Computer aided risk management in multiple-parameter physical systems

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Masch; Vladimir A.	New Providence	NJ		

US-CL-CURRENT: 705/7; 705/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS